

# NASA TECH BRIEF

## *Marshall Space Flight Center*



NASA Tech Briefs announce new technology derived from the U.S. space program. They are issued to encourage commercial application. Tech Briefs are available on a subscription basis from the National Technical Information Service, Springfield, Virginia 22151. Requests for individual copies or questions relating to the Tech Brief program may be directed to the Technology Utilization Office, NASA, Code KT, Washington, D.C. 20546.

### **Manufacture and Quality Control of Interconnecting Wire Harnesses**

A four-volume series of documents has been prepared as a standard reference for the manufacture, installation, and quality control of wire harnesses. Volume I covers harnesses enclosed in fluorocarbon elastomer, harnesses enclosed in TFE convolute tubing lined with Fiberglas braid, harnesses enclosed in convolute tubing, and harnesses that are enclosed in convolute tubing and are partially open-bundle (not enclosed).

Harnesses discussed in Volume II are the open-bundle type; in Volume III, harnesses enclosed in TFE heat-shrink tubing and in flexible armor are discussed; and Volume IV discusses flat conductor cables.

Each volume may be used separately and covers wire and cable preparation as well as harness fabrication and installation. Manufacturing flow diagrams depict several alternate procedures from materials acquisition to final systems compatibility tests. The parts, materials, tools,

and components used in harness manufacture are identified and discussed. Each volume contains similarly organized information on every phase of harness wiring and includes many helpful illustrations. This series should be a useful addition to the libraries of manufacturers of electrical and electronics equipment.

#### **Note:**

Requests for further information may be directed to:  
Technology Utilization Officer  
Marshall Space Flight Center  
Code A&PS-TU  
Marshall Space Flight Center, Alabama 35812  
Reference: B73-10211

Source: Marshall Space Flight Center  
(MFS-22511)